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1. Document ID: US 5494036 A Relevance Rank: 99

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File: USPT

Feb 27, 1996

US-PAT-NO: 5494036

DOCUMENT-IDENTIFIER: US 5494036 A

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TITLE: Patient infusion system for use with MRI

DATE-ISSUED: February 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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APPL-NO: 08/158055 [PALM]

DATE FILED: November 26, 1993

INT-CL-ISSUED: [06] A61B 6/00

INT-CL-CURRENT:

TYPE IPC	DATE
CIPN <u>G01 R 33/421</u>	20060101
CIPS <u>G01 R 33/28</u>	20060101
CIPS <u>A61 M 5/145</u>	20060101
CIPS <u>A61 M 5/00</u>	20060101

US-CL-ISSUED: 128/655; 128/DIG.1, 604/154, 604/131

US-CL-CURRENT: 600/432; 128/DIG.1, 604/131, 604/154

FIELD-OF-CLASSIFICATION-SEARCH: 128/653.2, 128/654, 128/655, 128/DIG.1, 128/DIG.12, 604/65-67, 604/27, 604/890.1, 604/131, 604/154, 604/134

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3523523</u>	August 1970	Reich et al.	128/655
<u>3812843</u>	May 1974	Wootten et al.	128/655
<u>4502488</u>	March 1985	Degironimo et al.	604/246 X
<u>4695271</u>	September 1987	Goethel	604/154 X
<u>4981137</u>	January 1991	Kondo et al.	
<u>5134373</u>	July 1992	Tsuruno et al.	
<u>5300031</u>	April 1994	Neer et al.	128/655 X

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
105550A1	September 1983	EP	
518100A1	May 1992	EP	
495287A3	June 1992	EP	

ART-UNIT: 335

PRIMARY-EXAMINER: Kamm; William E.

ASSISTANT-EXAMINER: Casler; Brian L.

ABSTRACT:

This invention relates generally to the field of Magnetic Resonance Imaging (MRI) systems for generating diagnostic images of a patient's internal organs and more particularly, this invention relates to improved MRI systems with decreased interference between the magnetic field used for producing diagnostic images and the magnetic fields generated by the electric motors used for driving the pistons of the contrast media injectors. Additionally, the system employs an improved communication link between an externally located system controller and the injection head control unit located within the electromagnetic isolation barrier which defines the magnetic imaging room.

23 Claims, 2 Drawing figures

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